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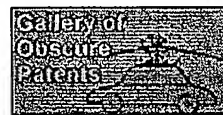
Buy Now: [More choices...](#)Tools: Add to Work File: [Create new](#)View: [INPADOC](#) | Jump to: Title: **JP2001119721A2: THREE-DIMENSIONAL IMAGE DETECTOR**Country: **JP Japan**Kind: **A2 Document Laid open to Public inspection**Inventor: **SEO SHUZO;**Assignee: **ASAHI OPTICAL CO LTD**
[News, Profiles, Stocks and More about this company](#)Published / Filed: **April 27, 2001 / Oct. 18, 1999**Application Number: **JP1999000294972**IPC Code: **H04N 13/02; G01B 11/24; G01B 11/245; G01C 11/06; G01S 5/14; H04N 5/225;**Priority Number: **Oct. 18, 1999 JP1999000294972**

Abstract:

PROBLEM TO BE SOLVED: To detect the entire three-dimensional shape of an object by photographing the subject from different directions.

SOLUTION: Cameras that can detect a distance up to an object corresponding to each pixel of a photographed image are used to photograph a building being the object from points G1, G2, G3. A GPS is employed to detect the positions of the points G1, G2, G3 on a map. An azimuth sensor and a tilt angle sensor provided in each camera sense photographing azimuths Lp1, Lp2, Lp3 and the tilt angles of the cameras at the points G1, G2, G3. A three-dimensional shape of the subject detected by the photographing at the points G1, G2, G3 is expressed by coordinate systems where the points G1, G2, G3 are respectively used for the origin. The coordinates of the object by the coordinate systems at the points G2, G3 are converted into the coordinate system at the point G1 on the basis of the positions, the photographing azimuths, and the tilt angles on the map by each photographing.

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